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changes  
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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004  
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=> s polyhydroxyalkanoate and anoxygenic and polyester

L1 5 POLYHYDROXYALKANOATE AND ANOXYGENIC AND POLYESTER

=> d l1 1-5 ti

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TI Forty years of microbial photosynthesis research: Where it came from and what it led to.

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TI \*\*\*Polyhydroxyalkanoates\*\*\* , biopolyesters from renewable resources: Physiological and engineering aspects.

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TI Positive selection systems for discovery of novel \*\*\*polyester\*\*\* biosynthesis genes based on fatty acid detoxification.

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TI Analysis of polyhydroxyalkanoic acid-biosynthesis genes of \*\*\*anoxygenic\*\*\* phototrophic bacteria reveals synthesis of a \*\*\*polyester\*\*\* exhibiting an unusual composition

=> d l1 5 ibib ab

L1 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:451207 CAPLUS

DOCUMENT NUMBER: 121:51207

TITLE: Analysis of polyhydroxyalkanoic acid-biosynthesis genes of \*\*\*anoxygenic\*\*\* phototrophic bacteria reveals synthesis of a \*\*\*polyester\*\*\* exhibiting an unusual composition

AUTHOR(S): Liebergesell, Matthias; Mayer, Frank; Steinbuechel,

Alexander  
CORPORATE SOURCE: Inst. Mikrobiol., Georg-August-Univ., Goettingen,  
D-37077, Germany  
SOURCE: Applied Microbiology and Biotechnology (1993),  
40(2-3), 292-300  
CODEN: AMBIDG; ISSN: 0175-7598  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB From genomic libraries of purple sulfur bacteria, fragments were cloned that encoded for proteins involved in the synthesis of poly(3-hydroxyalkanoic acids), PHA. A 12.5- and a 15.0- plus a 15.6-kbp EcoRI restriction fragment of *Ectothiorhodospira shaposhnikovii* or *Thiocapsa pfennigii*, resp., which hybridized with a fragment encoding the *Alcaligenes eutrophus* PHA-biosynthesis operon, were identified in  $\lambda$ .L47 libraries, whereas an 18.0-kbp EcoRI fragment of *Lamprocystis roseopersicina*, which phenotypically complemented a PHA-neg. mutant of *A. eutrophus*, was identified in a pVK100 cosmid library. Hybridization studies and enzymic anal. of crude exts. derived from transconjugants of *Escherichia coli* and *A. eutrophus* harboring these fragments revealed the presence of the genes for NADH-dependent acetoacetyl-CoA reductase and/or PHA synthase. The PHA-biosynthesis genes of *T. pfennigii* and *L. roseopersicina* as well as of *Chromatium vinosum*, *Thiocystis violacea*, *Rhodospirillum rubrum* and *Rhodobacter sphaeroides* were then analyzed for their ability to confer synthesis of PHA other than poly(3-hydroxybutyric acid) to PHA-neg. mutants of PHA-accumulating bacteria. The most striking result was that a fragment harboring the PHA-synthase gene of *T. pfennigii* conferred the ability to synthesize a polymer consisting of almost equimolar amts. of 3-hydroxybutyrate (48.5 mol%) and 3-hydroxyhexanoate (47.3 mol%) plus a small amt. of 3-hydroxyoctanoate (4.2 mol%) to a PHA-neg. mutant of *Pseudomonas putida*. A biosynthetic \*\*\*polyester\*\*\* with this compn. has not been described before.

=> FIL STNGUIDE

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